SOLID STATE TECHNOLOGY

CUMULATIVE INDEX-1968

INDEX of ARTICLES

Article and Author	sue F	Page	Article and Author Issue	Page
Advances in Diffusion Furnaces for Processing Large Diameter Wafers	ct.	25	Maintaining Accurate Temperature Profiles in the Semiconductor Diffusion ProcessOct. Ivan O, Nielson	29
Advances in Doped Oxides as Diffusion Sources0 M. L. Barry and P. Olofsen	ct.	39	Manufacturing the Plastic Dual In-Line Integrated CircuitAug. Alfred S. Budnick	37
Advances in Linear Monolithic Circuit TechnologyM R. A. Mammano	lar.	31	Mask Manufacture for Integrated CircuitsJuly Joseph B, Tong	19
Advances in Silicon Epitaxial Technology	oct.	48	Materials for Thick-Film Technology—State of the ArtJune Donald T. DeCoursey	29
Advances in Vacuum Equipment	ec.	57	Measurement Electronics for the Three-Point ProbeNov. P. A. Schumann, Jr., J. J. Hallenback, Jr., M. R. Poponiak, C. P. Schneider	32
Advances in Zone Refining	an.	21	M. R. Poponiak, C. P. Schneider Metal-Semiconductor Contact Measurements Using a	
Analysis of Single Crystal Silicon Slices by Neutron Activation Gulbrand Lunde	Jan	32	VHF Bridge Apr. Guy A. Armantrout and James C. Looney A Monolithic Integrated Circuit Processing Laboratory for	29
Assembling Beam-Lead Sealed-Junction Integrated Circuit Packages A Michael P. Eleftherion	ug.	27	the Electronics Industry	
Automation and Motor Function Routines for Mask Making J	uly	27	Plated Through-Holes with Photoetched TracesSept. Glen Affleck and Robert Perricone	
Roland C. M. Beeh Computer-Automated Isothermal Contouring	Apr.	19	Process Analysis of Mask MakingJuly Joseph E. Levine	34
A. D. Levit Die Bonding Principles and Considerations	lug.	47	Repairability of Printed Wiring Boards Containing Microelectronic Devices	39
Diode Voltage-Capacitance Method for Measuring Resistivity and Impurity Profile in a Silicon Epitaxial LayerF	eb.	31	Semiconductor Light EmittersApr. F. Joseph Reid	23
Direct Exposure of Photoresist by Projection		39	Silane: Review and ApplicationsOct. Allen L, Armirotto	43
Howard B. Lovering The Effect of Transistor Collector Design on Operation			Silicon Nitride EtchingJan. F. Woitsch	29
Voltage and Second BreakdownJu Bernard Reich	une	49	Simplified X-Ray Examination of Solid State Devices Nov. Samuel Lawhorne and John N. Ramsey	37
Evolution of Integrated Circuit Manufacturing Techniques N. R. P. Donovan and R. M. Burger	Aar.	41	Solder Ball Formation at the Screened Gold-Silicon Interface June George L. Duggan	42
rabrication of Printed Circuit Boards for Use with IC Packages Edward F. Duffek and Ernest Armstrong	ept.	23	Soldering Flatpacks	
Hermetic Seals by Thick-Film Techniques	lug.	43	Some Developments in Continuous SputteringDec.	37
A High Power Electron Beam Switched P-N Junction Nelson Ake and John McArtney	Vov.	40	Sputter Etching of Microcircuits and ComponentsDec. Robt, E. Heil, Jr., Steven Hurwitt and William Huss	42
A High Precision Alignment Device	Nov.	43	Status of Diffusion Data in Binary Compound Semiconductors Nov. David W. Yarbrough	. 23
High Q Silicon Monoxide Thin Film Chip Capacitors for Hybrid Microelectronics A. L. Houde	May	47	A Survey of Field Effect Structures	. 30
High Stability Thick-Film Resistors for Commercial Applications	une	45	TFT Instability and Stabilization Techniques	33
George D. Lane IC Packages: Which One to Use?	ept.	45	Technology of Ion ImplantationOct. D. E. Davies, T. C. Smith, R. N. Cheever	. 3
Bryant C. Rogers Improving Uniformity of Film Thickness in			Thin Film Conductors and InsulatorsMay L. V. Gregor and R. E. Jones	41
Vacuum Evaporation from a Linear Filament	Dec.	48	Thin Film Resistor Materials and Characteristics May Leon I. Maissel	2
Industrially Useful Circuits and Techniques Employed in Test Equipment for Controlled Rectifiers	Feb.	35	Tooling and Part Handling Systems for Thick-Film Microcircuits Daniel C, Hughes, Jr. June	3
lon and Electron Currents from Hot Filaments: Effect of Alloying on Electron Emission	Dec.	53	Ultrapure Water for the Semiconductor and Microcircuit Industries	. 2
Laser Precision Adjustment of Cermet Resistors in Production	iept.	29	Variables Affecting Punched-Hole Quality in Paper-Base Epoxy Resin Materials	. 3

SOLID STATE TECHNOLOGY/December 1968

CUMULATIVE INDEX-1968

INDEX of AUTHORS

Author and Article Is:	isue I	Page	Author and Article Issue	Page
AFFLECK, GLEN Plated Through-Holes with Photoetched TracesS	Sept.	33	HUSS, WILLIAM Sputter Etching of Microcircuits and ComponentsDec.	42
A High Power Electron Beam Switched P-N Junction		40	JONES R. E. Thin Film Conductors and Insulators	40
ARMANTROUT, GUY A. Metal-Semiconductor Contact Measurements Using a			KOSHINZ, ERNEST F. Die Bonding Principles and Considerations	47
VHF Bridge	.Apr.	29	KURTZ, JOHN Advances in Vacuum Equipment	57
ARMIROTTO, ALLEN L. Silene: Review and Applications ARMSTRONG, ERNEST Exhibiting of Partial County Review 1	.Oct.	43	LANE GEORGE D	
		23	High Stability Thick-Film Resistors for Commercial Applications June LAWHORNE, SAMUEL	45
IC Packages BARRY, M. L. Advances in Doped Oxides as Diffusion Sources	Oct	39	Simplified X-Ray Examination of Solid State Devices Nov. LEVINE, JOSEPH E.	37
BEEH, ROLAND C. M. Automation and Motor Function Routines for	. 001.	99	Process Analysis of Mask MakingJuly	34
Mask Making	.July	27	LEVIT, A. D. Computer-Automated Isothermal ContouringApr.	19
BIERBAUM, P. A High Precision Alignment Device BUDNICK ALFRED S.	Nov.	43	LOONEY, JAMES C. Metal-Semiconductor Contact Measurements Using a	00
Manufacturing the Plastic Dual In-Line Integrated Circuit	Aug	37	LOVERING, HOWARD B.	29 39
BURGER, R. M. Evolution of Integrated Circuit Manufacturing	. riugi	31	VHF Bridge Apr. LOVERING, HOWARD B. Direct Exposure of Photoresist by Projection July LUNDE, SULIBRAND Analysis of Single Crystal Silicon Silices by	39
Techniques CALLAHAN, C. C.	. Mar.	41		
Laser Precision Adjustment of Cermet Production	Classif	29	Thin Film Resistor Mauerials and CharacteristicsMay	27
CALMON, C. Ultrapure Water for the Semiconductor and	oep.	6.2	Provances in Linear Monolithic Circuit TechnologyMar.	31
Microcircuit Industries CHEEVER, R. N.	.Feb.	21	MANKO, H. H. Soldering FlatpacksSept.	42
Technology of Ion Implantation	. Oct.	33	Soldering Flatpacks Sept. MATZINGER, J. ROBERT Repairability of Printed Wiring Boards Containing	
Hermetic Seals by Thick-Film Techniques	.Aug.	4.2		
Technology of ion implantation DeCOURSEY, DONALD T. Materials for Thick-Film Technology—State of the Art	.úct.	35	McARTNEY, JOHN A High Power Electron Beam Switched P-N Junction Nov. NIELSON, IVAN O.	40
Materials for Thick-Film Technology—State of the Art	June	29	Semiconductor Diffusion ProcessOct.	. 29
A Monolithic Integrated Circuit Processing Laboratory	Man	47	OLOFSEN, P. Advances in Doned Oxides as Diffusion SourcesOct.	. 39
for the Electronics Industry	Mar.	47	PERRICONE, ROBERT Plated Through-Holes with Photoetched TracesSept.	. 33
Evolution of Integrated Circuit Manufacturing Techniques	.Mar.	41	POPE, RICHARD A.	
Fabrication of Printed Circuit Boards for Use with			Alloying on Electron EmissionDec.	
Integrated Circuit Packages DUGGAN, GEORGE L.	. Sept.	23	Measurement Electronics for the Three-Point Probe Nov.	. 32
Solder Ball Formation at the Screened Gold-Silicon Interface	.June	42	RAMSEY, JOHN N. Simplified X-Ray Examination of Solid State Devices Nov. REICH, BERNARD	. 37
ELEFTHERION, MICHAEL P. Assembling Beam-Lead Sealed-Junction Integrated			The Effect of Transistor Collector Design on Operation Voltage and Second Breakdown	49
ENGELTER, A.			DEID E IOSEPH	
A High Precision Alignment Device			Semiconductor Light Emitters	. 45
Thin Film Conductors and Insulators	May	40	BYNNE D.M.	
Diode Voltage Capacitance Method for Measuring Resistivity and Impurity Profile in a Silicon			Improving Uniformity of Film Thickness in Vacuum Evaporation from a Linear FilamentDec.	. 41
Epitaxiat Layer Advances in Silicon Epitaxial Technology GUTIERREZ, WILLIAM A.	Oct.	31	SEELY, J. LELAND A Survey of Field Effect Structures	. 30
TFT Instability and Stabilization Techniques	May	33	Measurement Electronics for the Three-Point Probe Nov.	. 3
HAIGHT, H. F. Industrially Useful Circuits and Techniques Employed			SCHUMANN, P. A. Jr. Measurement Electronics for the Three-Point Probe Nov	. 3
in Test Equipment for Controlled Rectifiers	Eab	. 35	SIMMONS, MELVYN M. Advances in Diffusion Furnaces for Processing Large Diameter WafersOct	. 2
CONFINANT, A. M.			SIMON, G. P.	
Some Developments in Continuous Sputtering HARDWAY, G. A.	Dec.	. 37	Microcircuit IndustriesPed). 2
Laser Precision Adjustment of Cermet Resistors in Production	Sept	. 29	SMITH, T. C. Technology of Ion Implantation	t. 3
HEIL, ROBERT H. Jr. Advances in Zone Refining			Mask Manufacture for Integrated Circuits	y 1
HOENIG, STUART A.	Dec	. 42	WANG. PEI Advances in Silicon Epitaxial TechnologyOct	t. 4
Ion and Electron Currents from Hot Filaments: Effect of Alloying on Electron Emission	Dec	. 53	WILLIAMS, R. A.	
HOUDE, A L. High Q Silicon Monoxide Thin Film Chip Capacitors for)F		Variables Affecting Punched-Hole Quality in Paper-Base Epoxy Resin Materials	. S
Hybrid Microelectronics HUGHES, DANIEL C., Jr. Tooling and Part Handling Systems for Thick-Film	Ma	y 47		
* Microcircuits	Jun	e 35	Silicon Nitride Etching Jar YARBROUGH, DAVID W. Status of Diffusion Data in Binary Compound	1. 2
HURWITT, STEVEN		. 42	Status of Diffusion Data in Binary Compound Semiconductors	v. 1

